Approved For Release 2004/01/14 : CIA-RDP75B00285R060300120033-0

SECRET

OSA-2084-72

1 May 1972

١	ATE N	J∩I	RΔI	וחע	IIM	FOR:	,
11	(11.0	YIL 3 I	KAI	MIN.	11171	COR:	

SUBJECT

: Procurement of Cardiac Defibrillator

- 1. This memorandum contains a recommendation for your approval. Such recommendation is contained in paragraph four (4).
- 2. Coronary artery disease is the most common cause of death in middle-aged American males. Many coronary thrombosis attacks would not be fatal if proper equipment were available immediately to control the electrical waves in the heart muscle in the initial few minutes. (Death is frequently caused by loss of control of contractions which renders the heart incapable of performing its function as a pump.)
- 3. In a situation where there are adequately trained medical personnel in a middle-aged community, it is considered necessary good practice to have such equipment available. For example, they are now placed in many Air Force Dispensaries as well as Hospitals.

4. It is recommended that be authorized to 25X	1 A
purchase necessary equipment as detailed in the attached	
sales' brochure in the amount of approximately 25X	(1A

25X1A

Jeries B"
Cy 141- w/ATT.

GROUP 1
Excluded from automatic
downgrading and
de lassification

SECRET

Approved For Release 2004/01/14 : CIA-RDP75B00285R089600120033-0 SECRET

OSA-2084-72 Page 2

5. Supporting memoral	nda from	Flight Surgeon	25X1
and the Office of Medical S	Services physic	Tan are accuence.	25X1/
Attachments As stated above APPROVED:		-	
	2 MAY 1972		
//	Date		
C/AMS/OSA	(1 May 72)		
Distribut ion 1 - AMS			
1 - '' 1 - BFD			
1 - EO/SA			
1 - RB			

	I CERTIFY THAT FUHUS ARE AVAILABLE!
25X1	CELICATION PETERENCE TO.
	CONTRACT OF ALLCTRONG LG. 12/4/-1050
25X1A	
	ANT BUSIZING GEFICER

25X1A

25X1A

SECRET

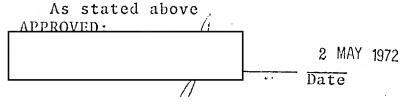
Approved For Release 2004/01/14 : CIA-RDP75B00285R099300120033-0

SECRET

OSA-2084-72 Page 2

5. and the	Supporting	memoranda	from	light Surgeon an are attached.	25X1A
-					25X1A
		,			
Attachme As st	ated above,				

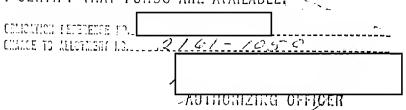
25X1A



I CERTIFY THAT FUHDS ARE AVAILABLE: ->

25X1

25X1A



SECRET

Approved For Release 2004/01/14: CIA-RDP75B00285R000390120033-0

EV MEMODANDUM	тο	
25X1MEMORANDUM	10	

SUBJECT: Justification and request for purchase of Cardiac Defibrillator and Electrocardiograph.

- 1. Request funds be approved for purchasing an electrical cardiac defibrillator and ECG recorder attachment. This medical equipment is needed in the opinion of the Flight Surgeon for the following reasons:
- a. Coronary heart disease is epidemic in middle aged american males, particularly those in sedentary occupations. Myocardial infarction is the most common cause of death in this group. Ventricular fibrillaton is the most common complication in the first few minutes or hours of a heart attack. Current medical information firmly establishes the fact that many otherwise survivable heart attacks result in demise of the patient because of ventricular fibrillation. Electrical defibrillation is the treatment of choice and is usually life saving. Most of our personnel are in the 4th to 6th decade of life and are in the highest 25X1A risk group statistically.
 - b. The remote location of our unit from the nearest hospital would definitely prevent transport of a patient to the hospital for defibrillation in the critical 4 or 5 minutes before irreversible brain damage would occur.
 - c. The current medico-legal trend is to require defibrillation capability in the smaller medical facilities as well as larger ones.
 - d. The equipment requested was selected after evaluation of four competing brands. It is "second generation" equipment and has distinct improvements over earlier units. All of the equipment is highly portable and suitable for field or office use, here or on deployment.
 - e. The ECG unit is requested because recording of arrhythimia prior to defibrillation is considered essential by several medical references (furnished on request). The unit is compatible with the defibrillator or can be used separately for ECG's in the field or on deployment.
 - f. An additional risk to our people is cardiac fibrillation due to electrical shock from high voltage equipment in avionics and other shops.
 - 2. The equipment requested is a product of Physiocontrol Corporation of Seattle, Washington and is sold and serviced by a local outlet, Medical Life Systems, Los Altos, Ca. 94022.

5X1	Lifepak/2 defibrillator with cardioversion Model 1073-04 ECG recorder TOTAL	\$2850.00 50.00 995.00 \$3895.00
	Director of Life Support	

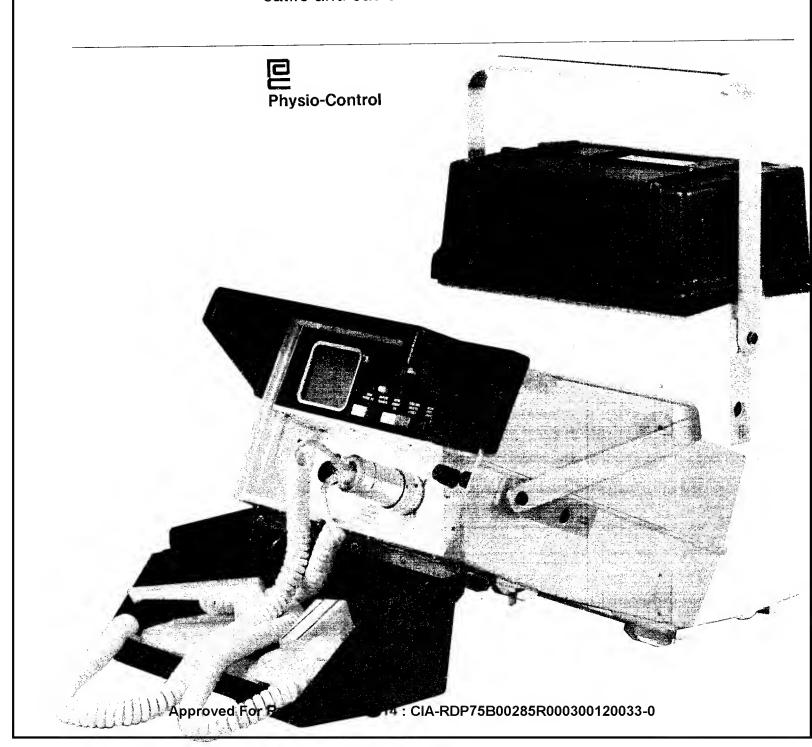
TTACHMENT Form 163a

25X1A

Approved For Release 2004/01/14: CIA-RDP75B00285R000300120033-0

LIFEPAK

Over three years of field-proven performance by the LIFEPAK / 33 have led the way to a second generation of portable LIFEPAKS by PHYSIO-CONTROL. LIFEPAK 2 is smaller, lighter, more versatile and easier to use.



No compromise, full capability ○. C Defibrillator

Five millisecond monophasic waveform produces up to 320 watt-seconds delivered energy (equivalent to 400 w.s. stored). Up to one hundred 320 watt-second pulses may be obtained without recharging battery. Continuously adjustable energy output level is displayed on an easy to read wattsecond meter. A built-in test streuit provides a quick method for checking the defibrillator output.

Built-in Cardioscope

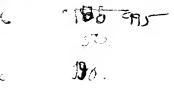
Large non-glare scope produces a clear ECG waveform engineered for a stable baseline and fast trace recovery from artifact or defibrillator pulses. Patented Quick-Look ** paddles permit monitoring the patient's ECG with the defibrillator paddles. This allows quick assessment of the patient's condition during an emergency. A standard 3 lead patient cable may be used for long term monitoring. A built-in synchronizer is optionally available for elective cardioversions.

Designed for the Operator

More than 3 years of experience with the LIFEPAK/33® have led to the development of an instrument that is exceptionally easy to use. Controls are located and labeled for maximum simplicity of operation. The paddle storage cover flips down to place the LIFEPAK 2 at an optimum viewing angle. Easily carried either open or closed. Front cover acts as a sun shield when used in brightly-lighted areas. A shoulder strap is available for hands-free carrying. Broad base provides stability when instrument is used on end.

Rugged construction

The case is constructed of a tough. impact-resistant, non-conductive material. Injection molding process provides high strength and rigidity.



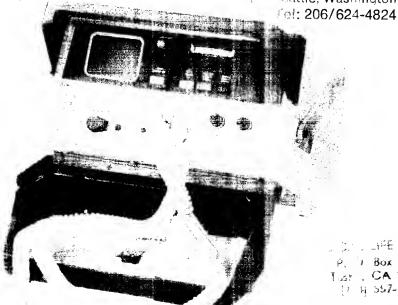
Reliable Power Source

Long-life rechargeable Nickel-Cadmium battery, field proven as a portable Defibrillator power source for more than three years in the LIFEPAK/33. Constant power at high or low use rates. Battery level indicator signals low battery. Standard Charge-Pak included Optional Mobile Charge-Pak is available for recharging the LIFEPAK 2 battery from vehicle power sources. Both chargers will provide emergency operating power for the LIFEPAK 2.

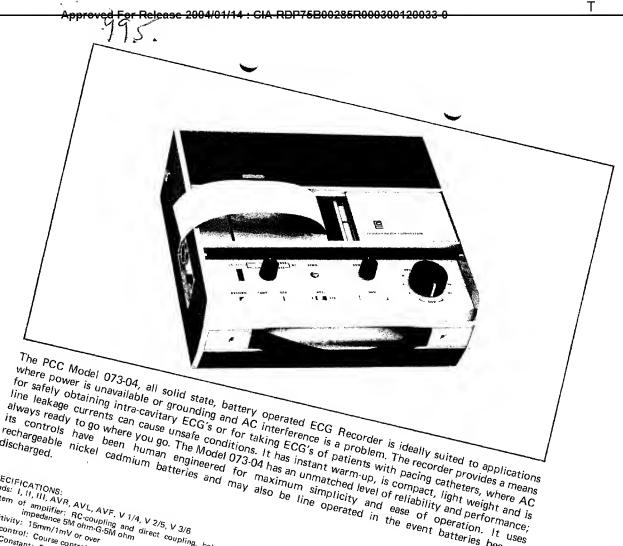
Optional ECG Modulator System

Provides for transmission of ECG signals via telephone or radio. The top mounted phone coupler accepts telephone or radio handsets. When outside noise level is high, the radio may be directly connected to the signal output. RF shielding is provided to minimize radio interference when used with portable radio transceivers. The system is compatible with most ECG modulator/demodulator systems now in use.

hysio-Control Corporation -507 Second Avenue eattle, Washington 981/1



EYSTEMS / Box , CA 92680 H 557-1864



always ready to go where you go. The Model 073-04 has an unmatched level of reliability and performance; rechargeable nickel cadmium batteries and may also be line operated in the event batteries become its controls have been human engineered for maximum simplicity and ease of operation. It uses discharged. SPECIFICATIONS:
Leads: I, II, III, AVR, AVL, AVF, V 1/4, V 2/5, V 3/6

Custom of amolifier Bounding and direct muniting Leads: 1, II, III, AVR, AVL, AVF, V 1/4, V 2/5, V 3/6
System of amplifier: RC-coupling and direct coupling, balanced input, input
Sensitivity: 15mm/1mV or over Sensitivity: 15mm/1mV or over Sensitivity: 15mm/1mV or over
Gain control: Course control-1 and 1/2 attenuations (2 steps) Time Constant: 2 seconds or over ACCESSORIES:

I Ime Constant: 2 seconds or over
Frequency response: (With 10 cps as reference) 65% or over at 60 Hz, 35% or Linearity: 5% or less at ± 20mm pen deflection Set noise: 10 uv or less (input equivalent)
Blanking circuit: Linked to control switch and lead selector switch

2000-1 (664h) or hotter Blanking circuit: Linked to control switch and lead Common mode rejection: 2000:1 (66db) or better Common mode rejection: 2000:1 (66db) or better circuit; ImV signal is recorded as required in recording (patented left) in the circuit in the circuit has a matrice.

Electric shockproof: Input circuit has 5 mA fuse Chart drive speed: 25mm/sec, and 50mm/sec.

Chart drive speed: 25mm/sec, and 50mm/sec.

Recording chart paper: Thermo-sensitive paper, 50mm wide, 30m long, rolled

Battery operation: Ni-Cd Battery One full charge control for approximately 400 Paper

Battery operation: Ni-Cd Battery One full charge serves for approximately 100 Charging time is approximately 14 hours.

Power requirements: 117 volts (other voltages, as Specified by customers, are Power requirements: 117 volts (other voltages, as specified by customers, are limited by customers, and customers, are limited by customers, are limited by customers, and customers, are limited by customers, and customers, are limited by customers, and customers are limited by customers, and customers, are limited by customers, and customers are limited

Dimensions and weight: 11" wide, 4" high, 9" deep, approximately 14 lbs.

MEDICAL LIFE SYSTEMS P. O. Box 1043 Tustin, CA 92680 (714) 557-7864

P_{atient} cable Power cable Ground wire Limb electrodes 1 Limb straps 1 Chest electrodes 1 s_{tylus} 4 Fuse (1-5mA, 2-1A) 4 Recording paper 3 DERMA JEL ® Electrode Jelly 1 S_{crewdriver} 3 Wrench for stylus 1 ECG Scale 1 Carrying case 1 1 1

PHYSIO-CONTROL CORPORATION 1 SEATTLE, WASHINGTON



Approved For Release 2004/01/14 : CIA-RDP75B00285R00990420033-01

	π	A	CH	ME	N
			8-66 8-66		

25X1A

27 April 1972

25X1A	MEMORANDUM TO:		AMS/OSA/D	
	SUBJECT	:	Cardiac Defibrilla	itors

The capability for direct current cardiac defibrillation is essential for successful resuscitation in the acute emergency. We have had experience using Physio-Control's LIFEPAK Defribillator and would strongly recommend their LIFEPAK 2, which is entirely portable, allowing "on the spot" defribillation. It also features a monitorscope which records continuous oscilloscopic display of ECG, with the defribillating paddles themselves being used as electrodes. The unit may also serve as a primary monitorscope using conventional electrodes for doing this monitoring.

Proper medical support for the management of catastrophic illness requires the presence of this type of equipment.

]
Deputy Chief, Clinical Division
Deputy Officer, Crimical Division

JDF/fmm